

Comparision of Protein Sequences

hbcl-w	MATPASAPDT RALVADFVGY KLRQKGYVCG AGPGE GPAAD PLHQAMRAAG	50
mbcl-w	.....T.....A.....	
hbcl-y	.....A.....E.....	
rbcl-y	.....T.....A.....	
hbcl-w	DEFETRFRRT FSDLAAQLHV TPGSAQQRFT QVSDELFQGG PNWGR LV AFF	100
mbcl-w	.....	
hbcl-y	.....	
rbcl-y	.....	
hbcl-w	VFGAALCAES VNKE MEPLVG QVQEWMVAYL ETRIADWIHS SGGWAEFTAL	150
mbcl-w	.....	
hbcl-y	.....	
rbcl-y	.....	
hbcl-w	YGDGALEEAR RLREGN WASV RTVLTGAVAL GALVTVG AFF ASK	193
mbcl-w	.....	
hbcl-y	.....	
rbcl-y	.....	

### Comparison of Nucleotide Sequences

Human bcl-w (SEQ ID NO: 6)

Human bcl-y (SEQ ID NO: 2 of the '201 Patent)

Rat bcl-y (SEQ ID NO: 1 of the '201 Patent)

hbcl-w	atg	gct	acc	cca	gcc	t	cg	gcc	cca	gac	aca	cgg	gct	ctg	gtg	gca	gac	48
hbcl-y																		
rbcl-y																		
hbcl-w	ttt	gta	ggt	tat	aag	ctg	agg	cag	aag	ggt	tat	gtc	tgt	gga	gct	ggc	96	
hbcl-y																		
rbcl-y																		
hbcl-w	ccc	ggg	gag	ggc	cca	gca	gct	gac	ccg	ctg	cac	caa	gcc	atg	cgg	gca	144	
hbcl-y																		
rbcl-y																		
hbcl-w	gct	gga	gat	gag	tt	c	gag	acc	cgc	ttc	cg	cg	acc	ttc	tct	gat	ctg	192
hbcl-y																		
rbcl-y																		
hbcl-w	gcg	gct	cag	ctg	c	at	gtg	acc	cca	ggc	tca	gcc	cag	caa	cgc	ttc	acc	240
hbcl-y																		
rbcl-y																		
hbcl-w	cag	gtc	tcc	gac	t	gaa	ctt	ttt	caa	ggg	ggc	ccc	aac	tgg	ggc	cgc	ctt	288
hbcl-y																		
rbcl-y																		
hbcl-w	gta	gcc	tcc	ttt	gtc	ttt	ggg	gct	gca	ctg	tgt	gct	gag	agt	gtc	aac	336	
hbcl-y																		
rbcl-y																		
hbcl-w	aag	gag	atg	gaa	cca	ctg	gtg	gga	caa	gtg	cag	gag	tgg	atg	gtg	gcc	384	
hbcl-y																		
rbcl-y																		
hbcl-w	tac	ctg	gag	acg	cg	ctg	gct	gac	tgg	atc	cac	agc	agt	ggg	ggc	tgg	432	
hbcl-y																		
rbcl-y																		
hbcl-w	gcg	gag	tcc	aca	gct	cta	tac	ggg	gac	ggg	ggc	ctg	gag	gag	gct	ggg	480	
hbcl-y																		
rbcl-y																		
hbcl-w	cgt	ctg	cg	gag	ggg	aac	tgg	gca	tca	gtg	agg	aca	gtg	ctg	acg	ggg	528	
hbcl-y																		
rbcl-y																		
hbcl-w	gcc	gtg	gca	ctg	ggg	ggc	ctg	gta	act	gta	ggg	ggc	ttt	ttt	gct	agc	576	
hbcl-y																		
rbcl-y																		
hbcl-w	aag	tgaa															583	
hbcl-y																		
rbcl-y																		

### Comparison of Nucleotide Sequences

Murine bcl-w (SEQ ID NO: 6)

Human bcl-y (SEQ ID NO: 2 of the '201 Patent)

Rat bcl-y (SEQ ID NO: 1 of the '201 Patent)

mbcl-w	atg	g	cg	a	cc	cc	ca	cc	acc	cc	ca	g	a	ca	cc	g	cc	g	ct	ta	gt	g	ct	g	ac	48			
hbcl-y																										g	aa		
rbcl-y																													
mbcl-w	ttt	g	ta	gg	c	t	at	gg	ct	g	ag	g	ag	g	aa	g	gt	at	gt	tc	t	gt	g	ga	g	ct	96		
hbcl-y																										t	a		
rbcl-y																										a	a		
mbcl-w	cct	gg	g	aa	gg	c	cc	g	cc	g	cc	cc	ct	g	ca	cc	aa	cc	at	g	cc	g	ct	g	ct	144			
hbcl-y	c	g																									a		
rbcl-y																											a		
mbcl-w	g	c	t	g	g	a	g	g	t	t	g	ac	c	gt	t	tc	cc	cg	cc	ac	t	tc	t	t	g	ac	192		
hbcl-y																										c	t		
rbcl-y																										c	g		
mbcl-w	g	cc	g	c	t	ca	g	tg	ac	cc	gg	cc	t	ca	g	cc	ca	g	ca	cc	tc	cc	ac	cc	tt	ac	240		
hbcl-y	g																										a		
rbcl-y																													
mbcl-w	c	ag	g	tt	tcc	g	ac	g	aa	ctt	ttc	ca	gg	gg	gc	c	ct	a	ac	tgg	gg	cg	ct	tt	cc	288			
hbcl-y																										c	c		
rbcl-y																													
mbcl-w	gt	g	ta	a	tt	c	tt	gt	tt	gg	gg	gt	cc	ct	g	ct	tgt	gt	gt	g	ag	gt	gt	aa	cc	336			
hbcl-y																										a			
rbcl-y																													
mbcl-w	aaa	g	aa	at	g	ag	c	c	t	tg	gt	gg	ga	aa	gt	ca	gt	ag	at	tg	tg	at	gt	gg	cc	384			
hbcl-y	g	g																										g	
rbcl-y																												a	
mbcl-w	ta	c	ct	g	g	ac	ca	cg	ct	g	ct	g	ac	t	cc	ac	ag	at	gg	gg	cc	gg	cc	tt	gg	432			
hbcl-y																											g	g	
rbcl-y																													
mbcl-w	g	cg	g	ag	t	tc	ca	ta	c	ac	gg	gg	gg	gg	gg	cc	ct	g	ag	g	ag	g	ca	cg	480				
hbcl-y																												g	
rbcl-y																													
mbcl-w	c	gt	ct	cg	g	ag	gg	gg	aa	t	gg	g	ca	t	ca	gt	ag	ac	gt	ct	ac	gg	gg	gg	528				
hbcl-y																													
rbcl-y																													
mbcl-w	g	cc	gt	g	ca	ct	g	gg	gg	cc	ct	g	ta	act	gt	gg	gg	gg	gg	tt	tt	tt	tt	gt	ac	576			
hbcl-y																													
rbcl-y																												t	
mbcl-w	a	ag	t	ga																									582
hbcl-y																													
rbcl-y																													